

Setup Android Emulator

Install Android Studio

Follow instruction in <https://developer.android.com/studio/index.html> to download and install Android Studio for your OS.

Install Android SDK 2.3.3

1. Open Android SDK manager:

- Linux/Mac:

Run command: ***[sdk_root_dir]/tools/android sdk***

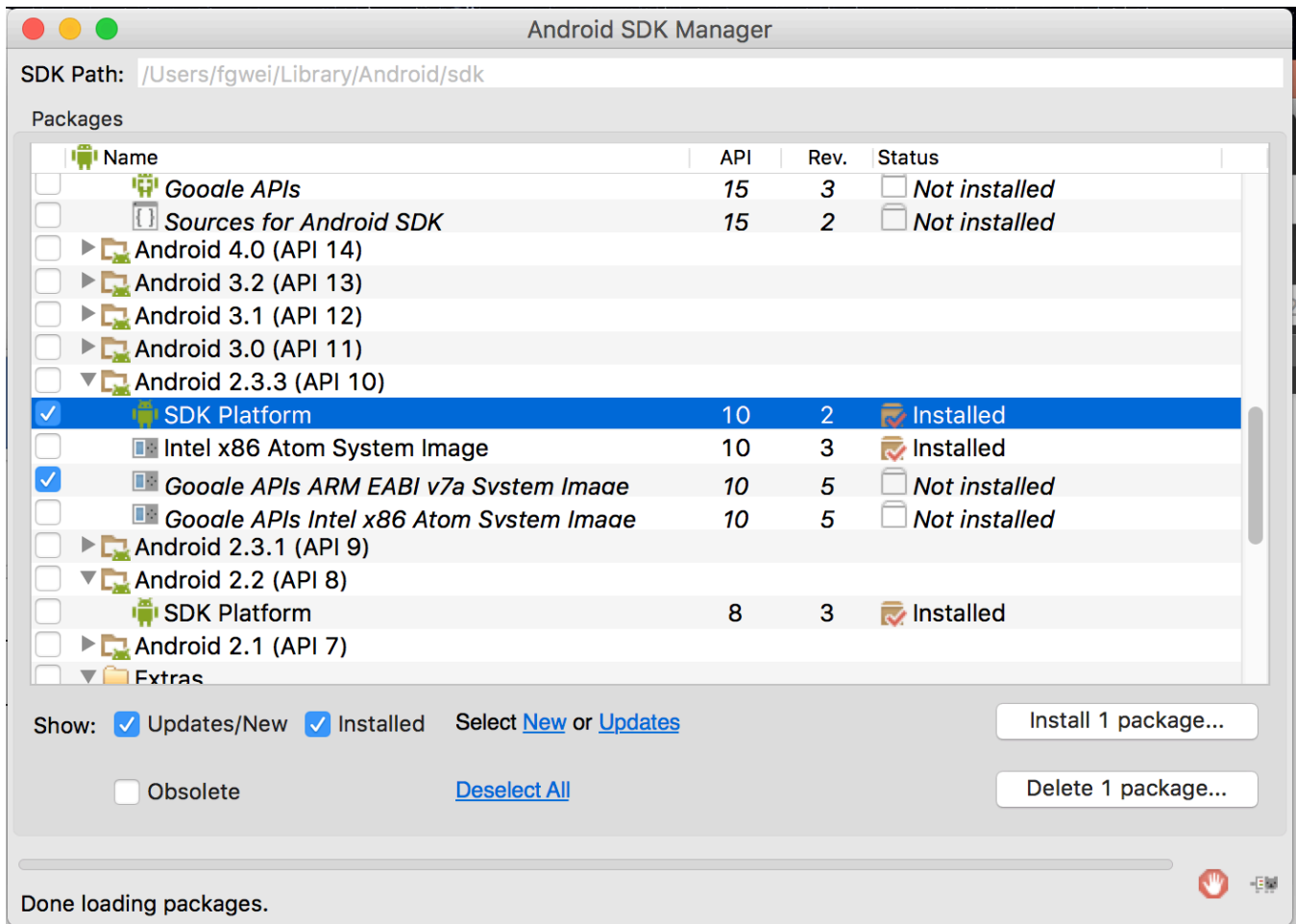
(By default sdk_root_dir should be ~/Library/Android/sdk)

- Windows:

Double click: ***[sdk_root_dir]\SDK Manager.exe***

(By default sdk_root_dir should be C:\Android\sdk)

2. Install **SDK Platform** and **Google APIs ARM EABI v7a System Image** of Android 2.3.3:



Create and Launch Emulator

1. Open Android AVD manager:

a. Linux/Mac:

Run command: **`[sdk_root_dir]/tools/android avd`**

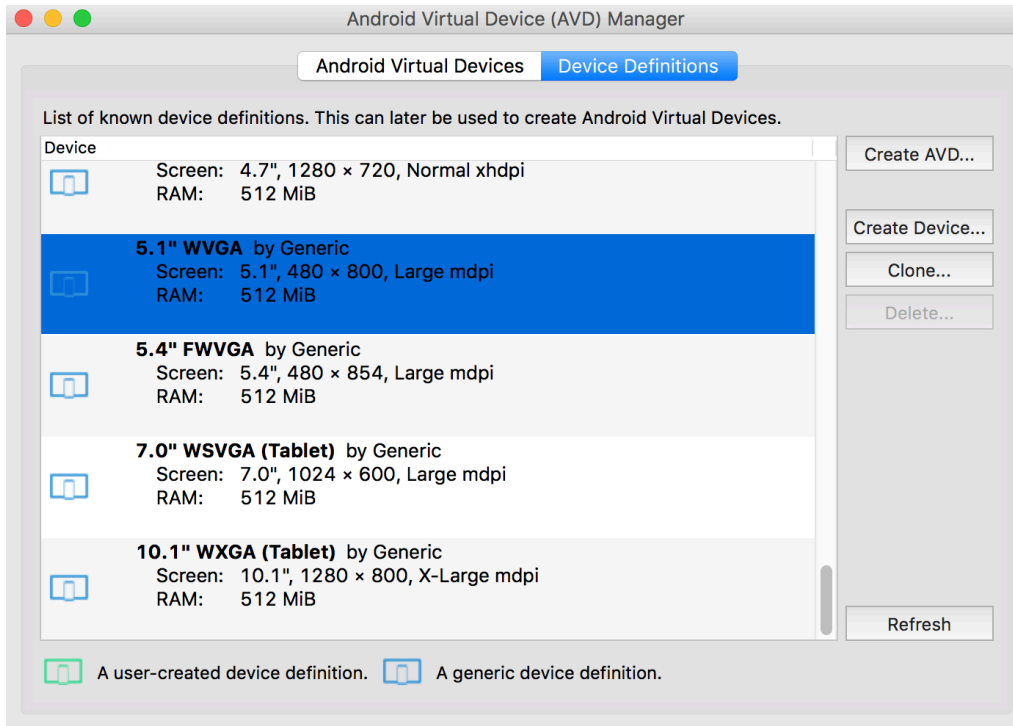
(By default sdk_root_dir should be ~/Library/Android/sdk)

b. Windows:

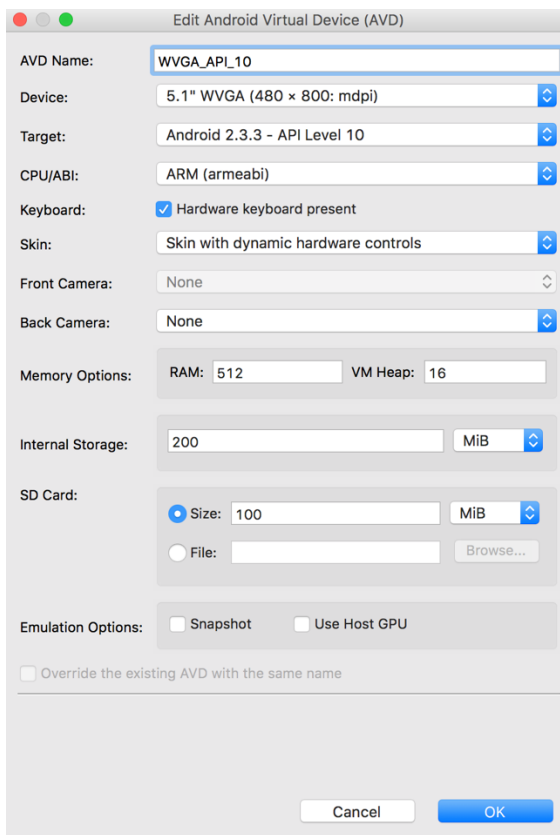
Double click: **`[sdk_root_dir]\AVD Manager.exe`**

(By default sdk_root_dir should be C:\Android\sdk)

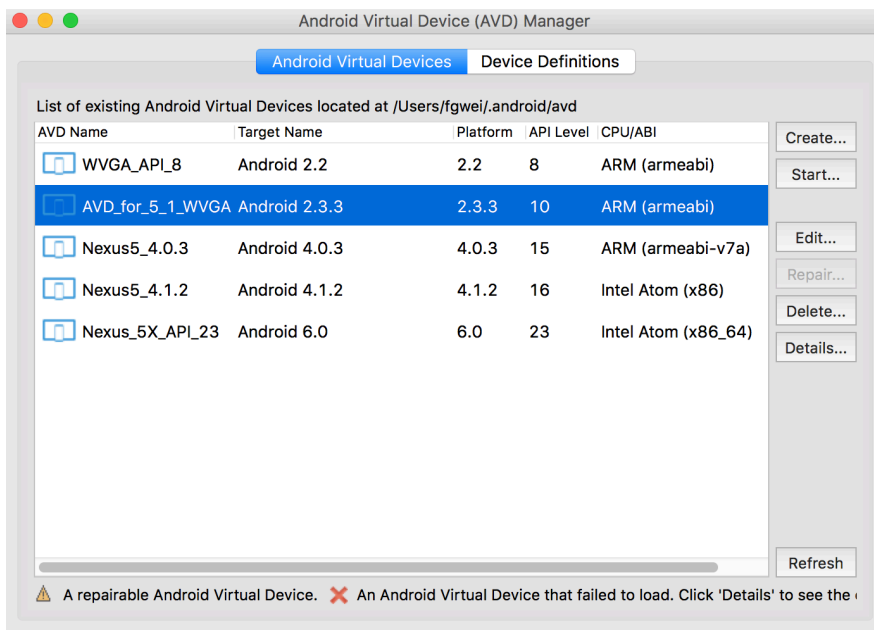
2. Click **Device Definitions**, choose **5.1" WVGA by Generic**, then **Create AVD...**:



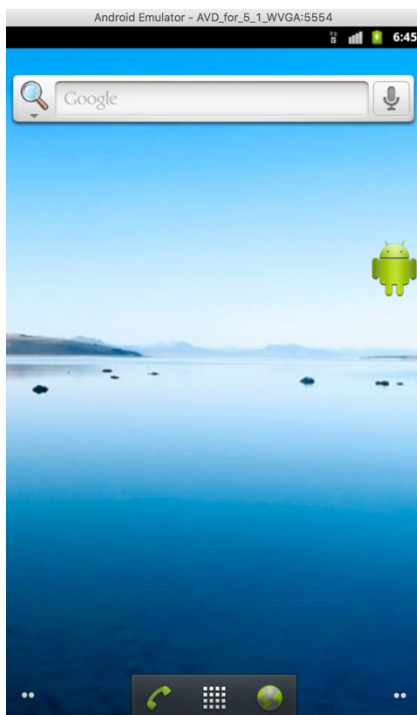
3. Fill in following specs:



4. In AVD Manager choose your newly created AVD and click **Start...** --> **Launch**:



5. An Android 2.3.3 ARM emulator should be launched:



Shell Connect to the Emulator

Execute command:

- Linux/Mac:

[sdk_root_dir]/platform-tools/adb shell

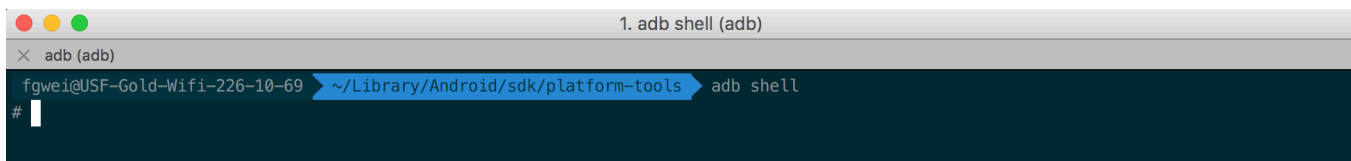
(By default sdk_root_dir should be ~/Library/Android/sdk)

- Windows:

[sdk_root_dir]\platform-tools\adb.exe shell

(By default sdk_root_dir should be C:\Android\sdk)

Following prompt means you are success.

A screenshot of a macOS terminal window. The title bar shows three colored window control buttons (red, yellow, green) and the text "1. adb shell (adb)". The terminal content shows a prompt "fgwei@USF-Gold-Wifi-226-10-69" followed by a blue arrow pointing to the command "~/Library/Android/sdk/platform-tools/adb shell". Below this, the prompt changes to "#", indicating a successful connection to the emulator's shell.

```
fgwei@USF-Gold-Wifi-226-10-69 > ~/Library/Android/sdk/platform-tools/adb shell
#
```